

Office of Intellectual Property Counsel  
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**PATENT**

Docket No.

55763US002

**Amendment Transmittal Letter**

Commissioner for Patents  
Washington, DC 20231

Inventor(s): Anatoly Z. Rosenflanz  
Application No. 09/618,876

Group Art Unit: 1755

Filed: July 19, 2000

Examiner: M. Marcheschi

Title: FUSED  $\text{Al}_2\text{O}_3$ - $\text{Y}_2\text{O}_3$ - $\text{ZrO}_2$  EUTECTIC ABRASIVE PARTICLES, ABRASIVE ARTICLES,  
AND METHODS OF MAKING AND USING THE SAME

☒ Enclosed is an amendment in the above-identified application.

☒ The fee for this amendment is computed as follows:

Claims As Amended							
(1)	(2) Claims Remaining After Amendment	(3)	(4) Highest No. Previously Paid For	(5) Present Extra	(6) Rate	(7) Additional Fee	
Total Claims	80	Minus	** 80	= 0	x \$18.00	=	\$0.00
Independent Claims	13	Minus	*** 13	= 0	x \$84.00	=	\$0.00
Additional fee for filing one or more multiple dependent claims, if no such fee has been previously paid					\$280.00	\$	
					Total Additional Fee For This Amendment →		\$0.00

\*\* If the "Highest No. Previously Paid For" in this space would be less than 20, write "20" in this space.

\*\*\* If the "Highest No. previously Paid For" in this space would be less than 3, write "3" in this space.

☒ Please charge to Deposit Account 13-3723 any fees under 37 CFR 1.16 and 1.17 which may be required during the entire pendency of this application. This authorization includes the fee for any extension of time under 37 CFR 1.136(a) that may be necessary. To the extent any such extension should become necessary it is hereby requested.

Registration Number	Telephone Number
35,048	651-736-0641
Date	December 19, 2001

Respectfully submitted,

Signature
Printed Name
Gregory D. Allen

**Certificate of Mailing**

Pursuant to 37 CFR 1.8 I certify that this correspondence is being deposited on the date indicated below with the United States Postal Service as First Class Mail addressed to: Commissioner for Patents, Washington, DC 20231

Date of Deposit  
December 19, 2001

Signature  
  
Printed Name  
Stephanie J. Flasch



GP 1755

PATENT  
Docket No.: 55763US002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Anatoly Z. Rosenflanz

Serial No.: 09/618,876

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For: FUSED  $\text{Al}_2\text{O}_3$ - $\text{Y}_2\text{O}_3$ - $\text{ZrO}_2$  EUTECTIC ABRASIVE  
PARTICLES, ABRASIVE ARTICLES, AND METHODS  
OF MAKING AND USING THE SAME

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on:

December 19, 2001

Date

Stephanie J. Fusch

Signature

AMENDMENT UNDER RULE 111

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

In response to the Official Action dated August 29, 2001, please amend the application as follows:

In The Specification

On page 41, please amend the following paragraph starting on line 13 and ending on line 22:

FIG. 9 is a scanning electron microscope (SEM) photomicrograph of a polished section (prepared as described in Comparative Example A) of fused Comparative Example E material. The photomicrograph shows a eutectic-derived microstructure comprising a plurality of colonies. The colonies are about 10-40 micrometers in size. Based on powder x-ray diffraction of a portion of Comparative Example E material, and examination of the polished sample using SEM in the backscattered mode, it is believed that the white portions in the photomicrograph were crystalline  $\text{Y}_3\text{Al}_5\text{O}_{12}$ , and the dark portions a crystalline  $\text{Al}_2\text{O}_3$ -rich spinel solid solution phase. The width of these phases observed in the polished section were up to about 2 micrometers.

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